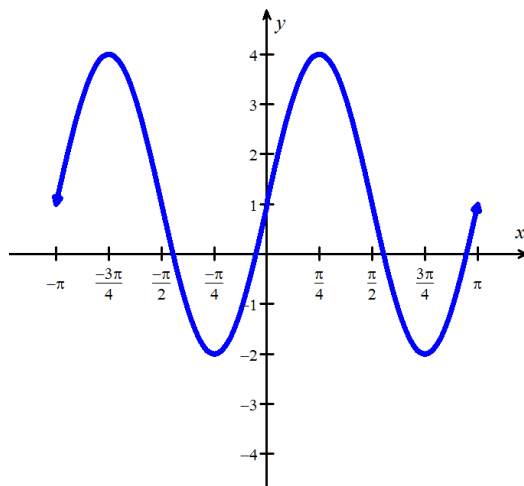


Math 1060 Chapter 3 Worksheet

1. Graph one cycle of the function $y = -2\sin(\pi x - \pi) + 3$. State the period, amplitude, phase shift and vertical shift of the function.

2. Graph one cycle of the function $y = 4\cos(2x + \pi) - 3$. State the period, amplitude, phase shift and vertical shift of the function.

3. Write an equation of the form $S(x) = A\sin(\omega x + \phi) + B$ for the sine function whose graph is shown below.



Math 1060 Chapter 3 Worksheet

4. Sketch two full cycles of each function. Accurately label the asymptotes and x -intercepts. State the period, domain and range.

a. $y = \tan(x)$

b. $y = \cot(x)$

c. $y = \sec(x)$

d. $y = \csc(x)$